

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE FRRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER

VERSION 4.2 PROGRAM, AGGESSIBLE THROUGHTHE U.S. PATENT AND

TRADEMARK OFFICE WEBSITE SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
  U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 041910,354	
ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE	
Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was refrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	A CONTRACT OF STREET
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
SVariable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6Patentin 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO.X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
The same of the sa	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence <210> sequence id number <400> sequence id number 000	
O Heada's as Van's	Use of n's and/or Xaa's have been detected in the Sequence Listing.	
9Use of n's or Xaa's (NEW RULES)	Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus species). <220> <221> section is required when <213> response is Unknown or is Artificial Sequence.	
11Usc of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or	
<del>ser ser G</del> erman et al. 1997 et al. 1997. Talendari	"Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 00/01/1998, Vol. 63, No104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	
	AMC - Biotechnology Systems Branch - 09/09/2003	



IFW16

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RAW SEQUENCE LISTING
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      7 <130> FILE REFERENCE: 2003320-0032
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     10 <141> CURRENT FILING DATE: 2001-07-20
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DATE: 05/28/2004

TIME: 13:27:24

SAME ORRORS Input Set : A:\PTO.YF.txt Output Set: N:\CRF4\05282004\I910354.raw 67 <211> LENGTH: 22 68 <212> TYPE: DNA 69 CREANISM: PCR primer 3' Lac Z for amplification of an insert fragment containing 1--> 70 (Lac Z gene. 72 <400> SEQUENCE: 6 22 73 uuacaatttc cattcgccat tc 76 <210> SEO ID NO: 7 77 <211> LENGTH: 37 78 <212> TYPE: DNA 79 <213> ORGANISM: (PCR primer 5' OST for amplifying an Ori fragment from pET 19 b. 81 <400> SEQUENCE: 7 37 82 ctgctaagtg agcucgacag atcgctgaga taggtgc 85 <210> SEQ ID NO: 8 86 <211> LENGTH: 36 87 <212> TYPE: DNA 88 <213> ORGANISM: (PCR primer 1N 3' Ori(s) for amplifying an Ori fragment from pET 19b. 90 <400> SEQUENCE: 8 36 91 aagettgeta agtagggegt ttttccatag geteeg 94 <210> SEQ ID NO: 9 95 <211> LENGTH: 36 96 <212> TYPE: DNA 97 <213 > ORGANISM: PCR primer 1NT5 KAN for amplifying a fragment containing the kanamycin V--> 98 (resistance gene from pCR2.1 topo. 100 <400> SEQUENCE: 9 101 ctacctagca agctuctate tggacaaggg aaaacg 36 104 <210> SEQ ID NO: 10 105 <211> LENGTH: 41 106 <212> TYPE: DNA 107 <213> ORGANISM: PCR primer T73' KAN for amplifying a fragment containing the canamycin V--> 108 resistance gene from pCR2.1 topo. 110 <400> SEQUENCE: 10 111 ccctatagtg agtcgtatta aggcgaaaac tctcaaggat c 41 114 <210> SEQ ID NO: 11 115 <211> LENGTH: 42 116 <212> TYPE: DNA 117 <213> ORGANISM: PCR primer tcs1 for amplifying a fragment containing the luciferase <u>gene</u> V--> 118 From pG1 II basic 120 <400> SEQUENCE: 11 121 ttaatacgac tcactatagg gatggaagac gccaaaaaca ta 42 124 <210> SEQ ID NO: 12 125 <211> LENGTH: 36 126 <212> TYPE: DNA 127 <213> ORGANISM: PCR primer tc58 for amplifying a fragment containing the luciferase V--> 128 from pG1 II basic. 130 <400> SEQUENCE: 12 36 131 gageteactt ageagttaca atttggaett teegee 134 <210> SEQ ID NO: 13 135 <211> LENGTH: 36 136 <212> TYPE: DNA

RAW SECUENCE LISTING

PATENT APPLICATION: US/09/910,354

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/910,354

DATE: 05/28/2004

TIME: 13:27:24



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Output Set: N:\CRF4\05282004\I910354.raw

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/910,354

DATE: 05/28/2004

TIME: 13:27:24

Input Set : A:\PTO.YF.txt

Output Set: N:\CRF4\05282004\1910354.raw



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RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 05/28/2004

PATENT APPLICATION: US/09/910,354

TIME: 13:27:25

Input Set : A:\PTO.YF.txt

Output Set: N:\CRF4\05282004\I910354.raw

## Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:11; Line(s) 117 Seq#:12; Line(s) 127

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/910,354

DATE: 05/28/2004 TIME: 13:27:25

Input Set : A:\PTO.YF.txt

Output Set: N:\CRF4\05282004\1910354.raw

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